CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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QC ABSTRACT

Nameof Work: Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes
1	1:3:6	99.00 Cum	1	1	Pass
2	M20	197.75 Cum	7	7	Pass
3	Steel	13.015 Ton	1	1	Pass
4	Slab 100mm	667.05 Sqm	1	1	Pass
5	Slab 230mm	12.00 Sqm	1	1	Pass
6	DLC	31.20 Cum	1	1	Pass
7	M30	292.80 Cum	9	9	Pass
8	WMM	54.00 Cum	-	-	-
		Gradation	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Atterberg Limits	1	1	Pass
9	DBM	13.00 Cum	-	-	-
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	1	1	Pass
		Bitumen content	1	1	Pass
10	BC	48.00 Cum	-	-	-
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	1	1	Pass
		Bitumen content	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	1Set for extra 50Cum	

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date: 05.04.2024

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Chandan N,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE	:	March - 2024
DATE OF TESTING	:	03.04.2024 to 05.04.2024
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	320 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date : 05.04.2024

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of Work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Date of Testing : 05.04.2024

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	129	12.90	21.30	78.7	75-100
1.18	175	17.50	38.80	61.2	55-90
600 Micron	162	16.20	55.00	45.0	35-59
300 Micron	224	22.40	77.40	22.6	8-30
150 Micron	162	16.20	93.60	6.4	0-10

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಜ.ಪ. ಬೆಂಗಳೂರು-64

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date : 05.04.2024

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of Work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Date of Testing : 05.04.2024

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2426	48.5	52.3	47.7	25-55
4.75	1980	39.6	91.9	8.1	0-10

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date : 05.04.2024

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of Work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Date of Testing : 05.04.2024

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	198	1.32	1.32	98.68	95-100
20	8230	54.87	56.19	43.81	30-70
10	3256	21.71	77.89	22.11	10-35
4.75	2795	18.63	96.53	3.47	0-5

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date : 05.04.2024

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of Work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Date of Testing : 05.04.2024

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	19	1.90	1.90	98.1	90-100
1.18	33	3.30	5.20	94.8	70-100
600 Micron	95	9.50	14.70	85.3	40-100
300 Micron	242	24.20	38.90	61.1	5-70
150 Micron	482	48.20	87.10	12.9	0-15

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date : 11.04.2024

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of Work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm" Fe550 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 11.04.2024

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	527	571	1.08	12
2	TMT	10	0.618	538	589	1.09	13.5
3	TMT	12	0.889	546	602	1.10	15

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date: 23.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2024	23.04.2024	8.168	336.3	14.95
2	16.04.2024	23.04.2024	8.184	345.2	15.34
3	16.04.2024	23.04.2024	8.154	352.4	15.66

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date: 23.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2024	23.04.2024	8.184	336.3	14.95
2	16.04.2024	23.04.2024	8.169	345.2	15.34
3	16.04.2024	23.04.2024	8.154	328.2	14.59

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date: 26.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. Chandan N,** Contractor, Bangalore.
Name of the work	: Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2024	26.04.2024	8.168	336.3	14.95
2	19.04.2024	26.04.2024	8.146	345.2	15.34
3	19.04.2024	26.04.2024	8.152	328.4	14.60

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. Chandan N,** Contractor, Bangalore.
Name of the work	: Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2024	26.04.2024	8.165	342.5	15.22
2	19.04.2024	26.04.2024	8.146	336.3	14.95
3	19.04.2024	26.04.2024	8.158	329.4	14.64

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date: 02.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. Chandan N,** Contractor, Bangalore.
Name of the work	: Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2024	02.05.2024	8.165	339.6	15.09
2	25.04.2024	02.05.2024	8.146	345.2	15.34
3	25.04.2024	02.05.2024	8.152	326.3	14.50

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date: 03.05.2024

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP,
Contractor	:	**Sri. Chandan N,** Contractor, Bangalore.
Name of Work	:	Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	03.05.2024
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.369	2320.13	1.62	0.959	32.60	16.60	17.93	17.20	21.49
2	50.00	83.00	0.384	2356.26	1.66	0.963	33.20	16.91	18.26	17.59	21.99
3	50.00	85.00	0.399	2390.69	1.70	0.968	33.90	17.27	18.65	18.04	22.55

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date: 14.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2024	14.05.2024	8.184	500.2	22.23
2	16.04.2024	14.05.2024	8.169	484.9	21.55
3	16.04.2024	14.05.2024	8.154	496.5	22.07

Note:

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date: 14.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2024	14.05.2024	8.184	508.2	22.59
2	16.04.2024	14.05.2024	8.169	516.2	22.94
3	16.04.2024	14.05.2024	8.146	484.9	21.55

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date: 17.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. Chandan N,** Contractor, Bangalore.
Name of the work	: Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2024	17.05.2024	8.184	500.8	22.26
2	19.04.2024	17.05.2024	8.165	498.6	22.16
3	19.04.2024	17.05.2024	8.152	510.2	22.68

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date: 23.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2024	23.05.2024	8.168	508.2	22.59
2	25.04.2024	23.05.2024	8.184	512.4	22.77
3	25.04.2024	23.05.2024	8.156	479.6	21.32

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date : 29.05.2024

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**Sri. Chandan N,** Contractor, Bangalore.
Name of Work	Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Bituminous Concrete
Date of Testing	29.05.2024

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 500.16
1	Flakiness Index	11.9	12.2	Combined Flakiness & Elongation index Max 35%
2	Elongation Index	13.1	13.5	
	Combined Flakiness & Elongation index	25.00	25.70	

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Date: 29.05.2024

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri. Chandan N,** Contractor, Bangalore.
Name of the work	:	Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, VG 30
Date of testing	:	29.05.2024

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	49	Min 45
2	Softening point, ^{0}C	50	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	266	Min. 220

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Date: 29.05.2024

Aggregate Gradation Test

Client	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**Sri. Chandan N,** Contractor, Bangalore.
Name of the Work	Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
BIS Code	IS 2386(Part 1):1963(RA 2011)
Sample I / D	Hot mix Plant, Bangalore.
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	29.05.2024

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.50	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.50	710	7.1	7.10	92.90	90 - 100	
19.00	1265	12.7	19.75	80.25	71 - 95	
13.20	1382	13.8	33.57	66.43	56 - 80	
4.75	2515	25.2	58.72	41.28	38 - 54	
2.36	1058	10.6	69.30	30.70	28 - 42	
0.300	1382	13.8	83.12	16.88	7 - 21	
0.075	1156	11.6	94.68	5.32	2 - 8	

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.5	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.5	695	7.0	6.95	93.05	90 - 100	
19	1482	14.8	21.77	78.23	71 - 95	
13.2	1156	11.6	33.33	66.67	56 - 80	
4.75	2415	24.2	57.48	42.52	38 - 54	
2.360	1182	11.8	69.30	30.70	28 - 42	
0.300	1369	13.7	82.99	17.01	7 - 21	
0.075	1252	12.5	95.51	4.49	2 - 8	

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date: 31.05.2024

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri. Chandan N,** Contractor, Bangalore.
Name of the Work	:	Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	31.05.2024

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.36	10.69	9 Kn (min)
2	Marshal flow, mm	2.55	3.48	2 – 4
3	Percent air voids in Mineral Aggregate	13.62	14.81	13 – 15
4	Voids in Compacted Mix	3.48	3.49	3 – 6
5	Percent Voids filled with Bitumen	72.45	73.63	65 - 75
6	Density, g/cc	2.25	2.26	--

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date : 31.05.2024

Specific Gravity And Water Absorption Test

Client	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**Sri. Chandan N,** Contractor, Bangalore.
Name of the Work	Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Bituminous Concrete
Date of Testing	29.05.2024 to 31.05.2024

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2020	2022	2024	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1265	1267	1269	
4	Weight of saturated surface dry aggregate in air	W_3 g	2014	2016	2018	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	749	749	749	
6	Weight of oven dried aggregate	W_4 g	2009	2010	2011	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.682	2.684	2.685	2.684
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.700	2.705	2.710	2.705
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.25%	0.30%	0.35%	0.30%

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%(MORTH table 500.16)

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date : 06.06.2024

GRADATION FOR DRY LEAN CONCRETE
MORTH TABLE-600-1

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of Work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Date of Testing : 06.06.2024

Material : Dry Lean Concrete

Oven Dry Wt (gm): **10000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	810	810	8.1	91.9	80-100
9.5	2536	3346	33.5	66.5	55-75
4.75	1699	5045	50.5	49.6	35-60
0.600	3362	8407	84.1	15.9	10-35
0.075	906	9313	93.1	6.9	0-8

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date: 18.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2024	18.06.2024	8.168	500.6	22.25
2	11.06.2024	18.06.2024	8.184	489.4	21.75
3	11.06.2024	18.06.2024	8.149	512.4	22.77

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Date: 18.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2024	18.06.2024	8.165	500.2	22.23
2	11.06.2024	18.06.2024	8.145	512.4	22.77
3	11.06.2024	18.06.2024	8.152	489.3	21.75

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date: 19.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2024	19.06.2024	8.189	505.2	22.45
2	12.06.2024	19.06.2024	8.165	516.2	22.94
3	12.06.2024	19.06.2024	8.146	489.4	21.75

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ಬ.ಬ.ಮ.ಪ. ಬೆಂಗಳೂರು-64

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date: 21.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2024	21.06.2024	8.165	508.2	22.59
2	14.06.2024	21.06.2024	8.145	512.2	22.76
3	14.06.2024	21.06.2024	8.152	489.6	21.76

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CACE/BBMP/CN/W.No.03/2024-25

Date: 09.07.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2024	09.07.2024	8.166	708.2	31.48
2	11.06.2024	09.07.2024	8.145	716.2	31.83
3	11.06.2024	09.07.2024	8.152	732.3	32.55

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Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2024	09.07.2024	8.165	708.2	31.48
2	11.06.2024	09.07.2024	8.146	713.3	31.70
3	11.06.2024	09.07.2024	8.152	724.5	32.20

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Client	**: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	**: Sri. Chandan N,** Contractor, Bangalore.
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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2024	10.07.2024	8.168	708.2	31.48
2	12.06.2024	10.07.2024	8.184	716.3	31.84
3	12.06.2024	10.07.2024	8.146	724.5	32.20

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Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2024	10.07.2024	8.136	716.2	31.83
2	12.06.2024	10.07.2024	8.154	708.9	31.51
3	12.06.2024	10.07.2024	8.149	724.3	32.19

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Job No.: CACE/BBMP/CN/W.No.03/2024-25 Date: 12.07.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandan N,** Contractor, Bangalore.

Name of the work : Construction of Concrete road and drains at Ambedkar Nagara Colony, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2024	12.07.2024	8.160	708.2	31.48
2	14.06.2024	12.07.2024	8.184	716.3	31.84
3	14.06.2024	12.07.2024	8.156	724.2	32.19

Note:

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